

REMARKS

Applicant thanks the Examiner for his courtesy in the in-person interview of December 10, 2004. As indicated in the Interview Summary, "It was agreed that claims 1 and 54 [the claims principally discussed during the interview] should be amended to refer to the 'channelized spectrum' in the body of the claims," as opposed to the preamble, as this is intended to be a positive limitation on the claims. Applicant has incorporated that change in those claims, and amended the remaining claims where necessary to refer expressly to the preamble (e.g., claim 12 is amended to clarify that the channel spacing in part (a) is "the" channel spacing recited in the preamble). Applicant respectfully submits that, with those amendments, it is now clear what claim parts are limiting and specifically that the claims are expressly limited to methods and apparatus for tuning *channelized spectra*.

Applicant has accordingly also amended all pending claims to clarify what is meant by "near baseband" in the context of a channelized spectrum by specifying the passband spacing from DC by varying amounts defined with reference to channel spacing of the channelized spectrum. In claim 54, applicant has clarified that the near edge of the passband is spaced from DC by about an integer multiple of the channel spacing or a half-channel-spacing displacement therefrom, which are the principal embodiments discussed in the specification.

New dependent claims 84, 94, and 98-107 recite various more specific limitations concerning the passband's spacing from DC, in terms of the channel spacing, as reflected in various particular preferred embodiments described in the specification. In claims 1 (part (b)(2)) and claim 12 (part (c)), applicant has restored the wording of the passband's spacing from DC (modified in the ways discussed above) to that in the claims as originally filed.

Also, in claim 39, applicant has reworded or moved certain already existing limitations and broadened the claim somewhat by removing the unnecessary final limitations. In claim 54, applicant has also broadened the claim by moving part (c) to a dependent claim. In independent claims 65 and 74 and dependent claims 2 and 13, applicant has clarified that the maximum bandwidth of the channel of interest is less than the channel spacing. Amendments are also presented to various claims to refer to the "channel" rather than the "signal," merely to avoid any possible ambiguity in interpretation. Finally, applicant has removed "whereby" clauses as unnecessary, given that they are non-limiting.

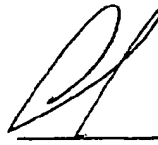
Applicant is concurrently filing a Supplemental Information Disclosure statement that cites a paper by M. Steyaert and J. Crols entitled "Analog Integrated Polyphase Filters," which was presented at the 1994 Workshop of Advances in Analogue Circuit Design in Eindhoven, Netherlands. This paper was discovered since the interview with the Examiner. Applicant believes that the paper does not preclude patentability of the claims, as amended in accordance with the interview, for *at least* the reason that it does not disclose selecting a passband defined with reference to channel spacing. See especially page 157 of the paper (defining IF in terms of bandwidth).

In addition, applicant has submitted new claims 82 through 107. Claims 83, 85-93, and 95, are modified versions of issued claims 7-17, respectively, of U.S. Patent 6,631,256, which issued from application Serial No. 10/032,526, the parent to the present application. As with the pending claims of this continuation, the modifications are made principally to reflect selecting a passband based on channel spacing. Other modifications include removing the non-limiting preambles, using "channel" instead of "signal," and certain cosmetic changes.

The newly entered claims recite similar limitations to the presently modified claims discussed above, and applicant respectfully suggests that these claims are in condition for allowance as well.

Please feel free to telephone the undersigned if it would in any way advance prosecution of this application.

Respectfully submitted,



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